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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/851,622	05/08/2001	Ejaz Ul Haq	44176.00033	4383	
30256 7:	590 06/19/2002				
	NDERS & DEMPSE	EXAMINER			
	600 HANSEN WAY PALO ALTO, CA 94304-1043			LE, DINH THANH	
			ART UNIT	PAPER NUMBER	
			2816		
			DATE MAILED: 06/19/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(\$)				
Office Action Summary	09/851,622	HAQ, EJAZ UL				
Office Action Summary	Examin r	Art Unit				
The MAILING DATE of this communication app	DINH T. LE	shoot with the correspondence a	ddross			
Period for Reply	ears on the cover	Sheet with the correspondence a	uuress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, howe within the statutory min vill apply and will expire s cause the application to	over, may a reply be timely filed finum of thirty (30) days will be considered times (31X (6) MONTHS from the mailing date of this become ABANDONED (35 U.S.C. § 133).	ely. communication.			
1) Responsive to communication(s) filed on	<u> </u>					
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-fi	nal.				
3) Since this application is in condition for alloward closed in accordance with the practice under a			he merits is			
Disp sition of Claims						
4) Claim(s) <u>1-33</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdraw	vn from consider	ation.				
5) Claim(s) is/are allowed.			•			
6)⊠ Claim(s) <u>1-33</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election require	ment.				
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on	- , , ,	•	ner.			
If approved, corrected drawings are required in rep		ion.				
12)☐ The oath or declaration is objected to by the Ex	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	n priority under 35	5 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	s have been rece	ived.				
2. Certified copies of the priority documents		• • • • • • • • • • • • • • • • • • • •				
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 1	7.2(a)).	al Stage			
14) Acknowledgment is made of a claim for domesti	c priority under 3	5 U.S.C. § 119(e) (to a provision	al application).			
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)		00				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)	Interview Summary (PTO-413) Paper N Notice of Informal Patent Application (P Other:				
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NON-FINAL REEJECTION

Response to Applicant's Amendment

The rejection over Dumas (US Pat. 6,122,331) is withdrawn in view of the amendments

to the claims.

The double patenting rejection over the Haq (US 6,255,859) is withdrawn in view of the

arguments presented in the amendment.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every

feature of the invention specified in the claims. Therefore, the recitation "first controller coupled

to the first comparator for coupling the first result to the output terminal based on the previous

logical state" in claim 2, 11, 13-14, 19 and 20, "oscillating source" in claim 10 and "output

circuitry" in claim 23 must be shown or the feature(s) canceled from the claim(s). No new

matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office

action to avoid abandonment of the application. The objection to the drawings will not be held

in abeyance.

Claim Rejections

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Claim Rejections - 35 USC § 112

Claims 1-33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Correction or clarification is required.

In claim 1, it is still not understood what the "known previous logical state" is, where it come from, how it can be related to the "oscillating signal" and the "incoming signal", and how the signals can have the known previous state since this limitation is not clearly defined. Is the known previous logical state the predetermined state of the incoming signal? If this is true, how comparing two input signals can detect the transition of the incoming signal relative to "the known previous logical state" and what is meant by "to detect a transition in the incoming signal relative to the known previous logical state". This description is misdescriptive. The same is true for claims 9, 11, 20 and 23.

In claim 2, it is unclear what the "output signal" is and where it comes from and how the recitation "generating a control signal based on the previous logical state " is read on the preferred embodiment. Insofar as understood no such limitation can be determined on the drawings. The same is true for reciting "comparing the oscillating reference and the output signal" in claims 3-5.

In claim 23, the recitation "the comparator" on line 8 lacks clear antecedent basis. It is unclear what is meant by "circuitry for coupling to the output terminal of the comparator that is not coupled to the output terminal and . . . not transition" on lines 8-11.

In claims 29 and 32, it is unclear how a discontinuously varying signal can be an oscillating signal and how it is read on the preferred embodiment or the drawings.

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The remaining claims are dependent from the above rejected claims and therefore also considered indefinite.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-33 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-10 of U.S. Patent No. 6,255,859. Although the conflicting claims are not identical, they are not patentably distinct from each other because both inventions disclose a circuit comprising:

- a first comparator.
- a second comparator
- a first controller and a second controller.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

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sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 23 are rejected under 35 USC 102 (b) as being anticipated by Arends et al. (US Pat.

5,463,211).

Figures 2a and 3g disclose a detector circuit comprising an oscillating reference ©.

incoming signal (B, C) and a comparator (5,6, 8) and a controller (7).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner Dinh Le whose telephone number is (703) 305-3790.

The examiner can normally be reached on Monday to Friday from 7:00 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tim Callahan, can be reached on (703) 308-4876. The fax phone number for this

Group is (703) 308-7725.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Primary Examiner

V ahelle

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June 15, 2002